

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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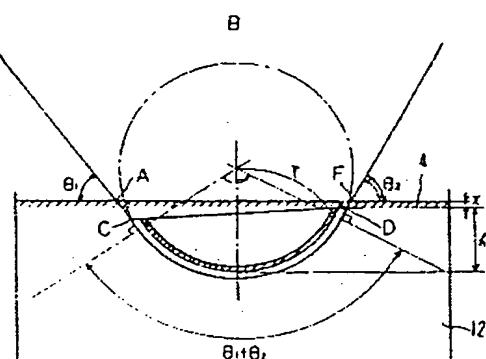
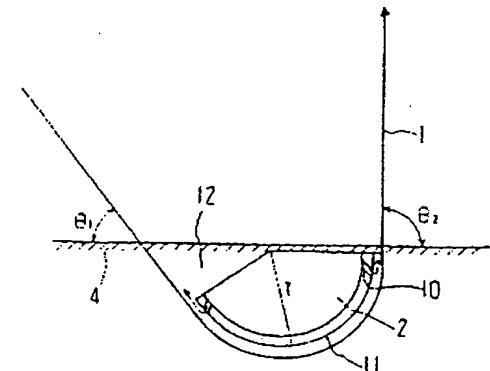
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APPLICANT : NIPPON STEEL CORP;

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TITLE : FLUID SUPPORTING PAD USED IN  
LIQUID



ABSTRACT : PURPOSE: To improve the workability of a product after plating as well as to improve the surface quality of the product by using a noncylindrical fluid supporting pad with a convexedly curved surface of less than a semicircle, for only the surface to be opposed to a strip metal in plate of a cylindrical fluid pad.

CONSTITUTION: As compared with a cylindrical pad, it is good enough to be only a part equivalent to length as long as  $h_1$  of less than 1/2 in a diameter  $2r$  so that the length of a strip metal 1 being dipped in a plating bath 12 is reducible. In consequence, the dipping time is reducible as well. Since an arc surface 11 is provided with a liquid exhaust nozzle 10, the strip metal 1 is conveyed in noncontact with the arc surface 11 of a pad 2 in a state of sticking metal plating on the surface, and it is drawn out of the plating bath 12 in a short time. And, if this pad 2 is used, longitudinal length can be shortened so that a liquid quality in a liquid tank can be reduced as much as a portion equivalent to the part reduced in length, therefore energy required for heating and hot insulation is reducible as well.

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